

Fig. 1

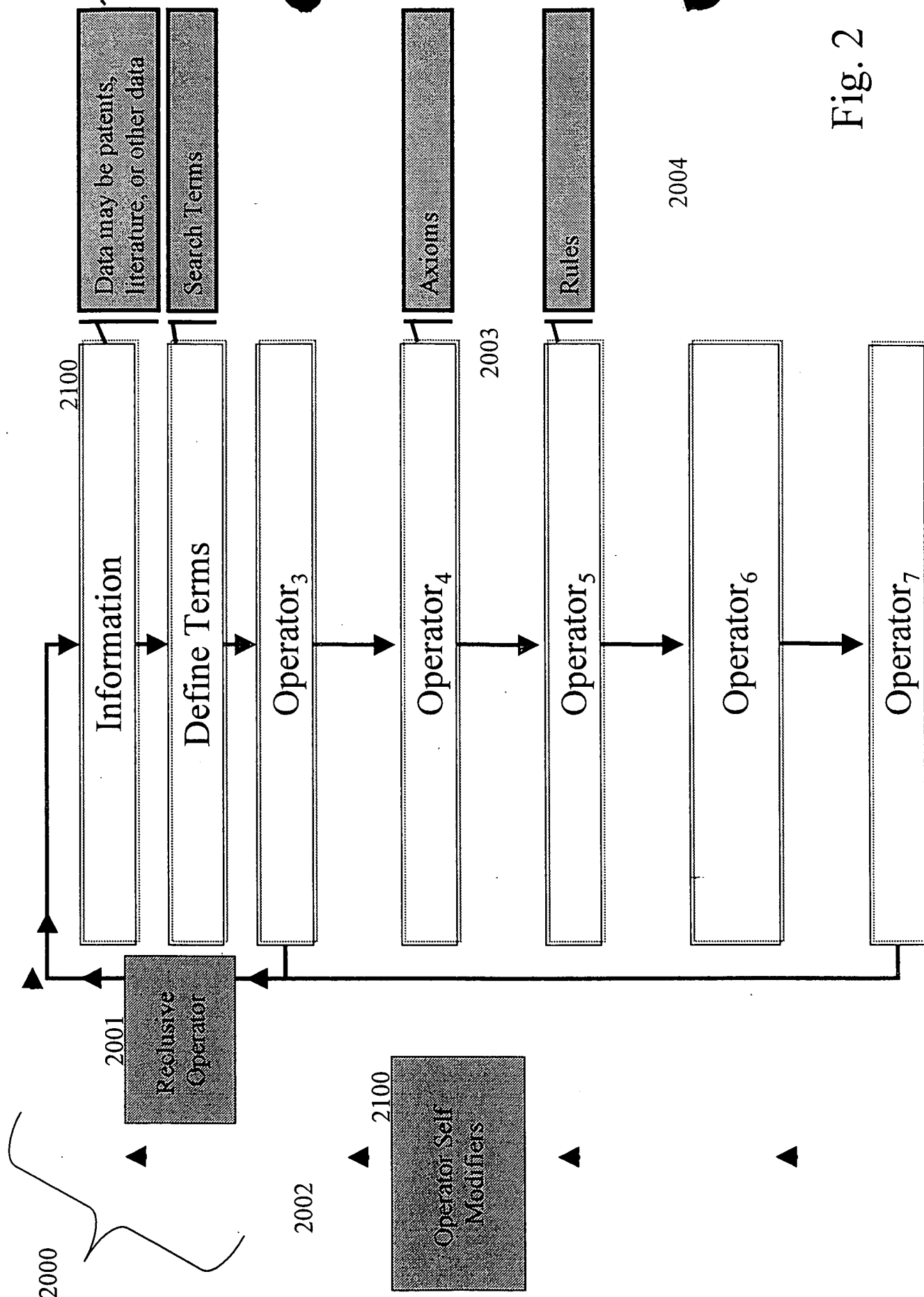


Fig. 2

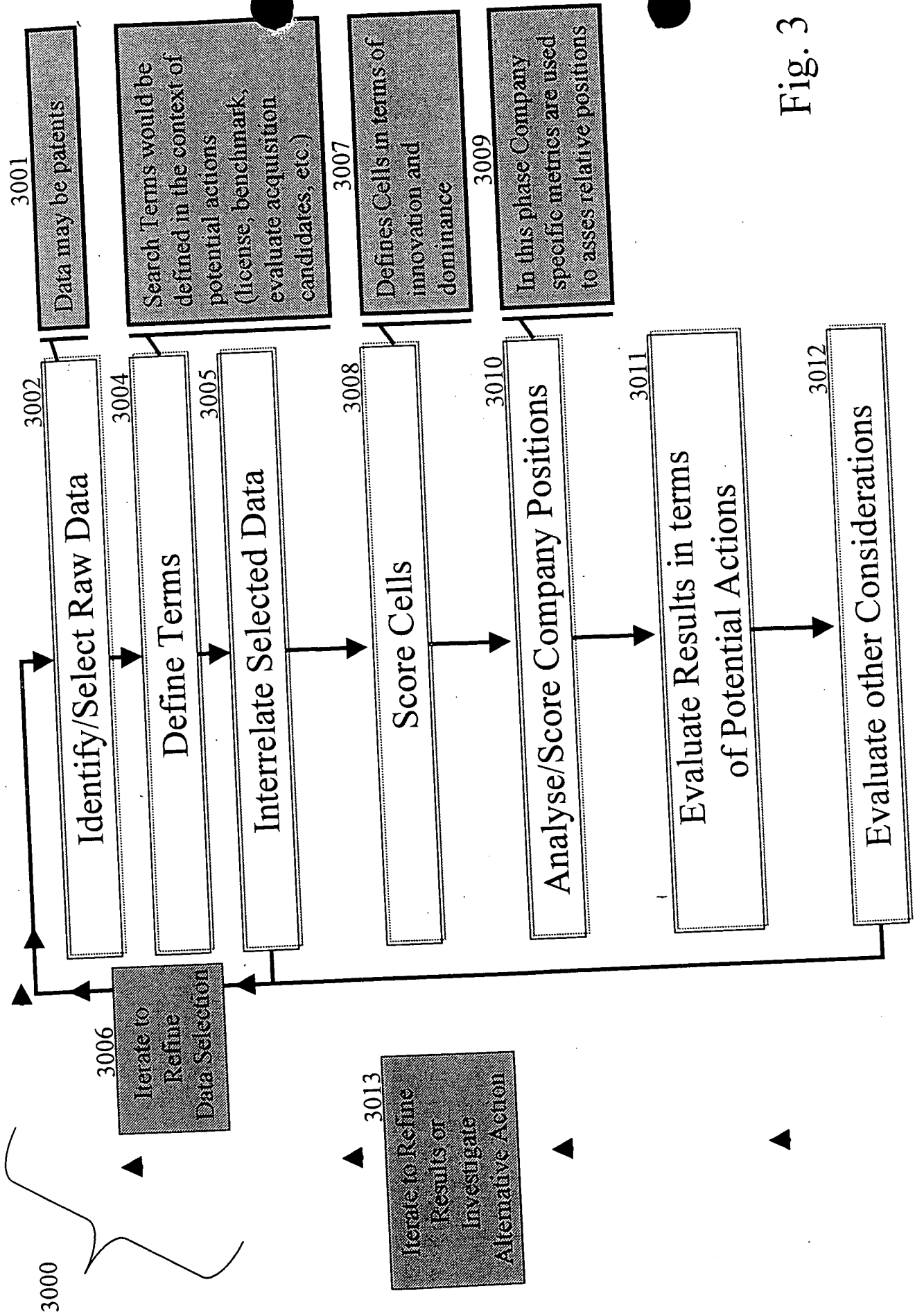
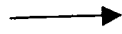


Fig. 3

# An Example of Source Data

## Infrared Technology

4081



Objects 4001

	4007					
	01 4005 photo-receptor or 4006 2969	02 4009 digital image 4059 5004	03 4010 digital scan 4060 775	04 4011 remote network or 4061 1224	05 4012 thermal image 4062 1672	06 4013 optic align 4063 5278
A near infrared 4008 1681	4003 12 <sub>4004</sub>	9	1	1	18	22
B far infrared 4064 550	4072 0	0	0	0	3	12
C infrared 4065 21604	62	87 <sub>4071</sub>	20	34	263	249

4007

4002

Actions  
4015  
4014

4082

Fig. 4

# Initial Definitions

**SEARCH TERM** - a string of text to be found within the Text or Claims of desired patents.

Search Terms can be classified as either "Action" or "Object."

Several related Action Search Terms may be combined to reflect a single Action.

**CELL** - a cross section of Search Terms (Action x Object).

Cells are given a reference code (e.g. A01) to depict the combination of source Search Terms.

The reference code may be followed by a C or T to note that the search terms were found within the Text or Claims of the included patents.

**CLUSTER** - a group of naturally related cells.

**FIELD** - a patent landscape defined by the composite of all cells.

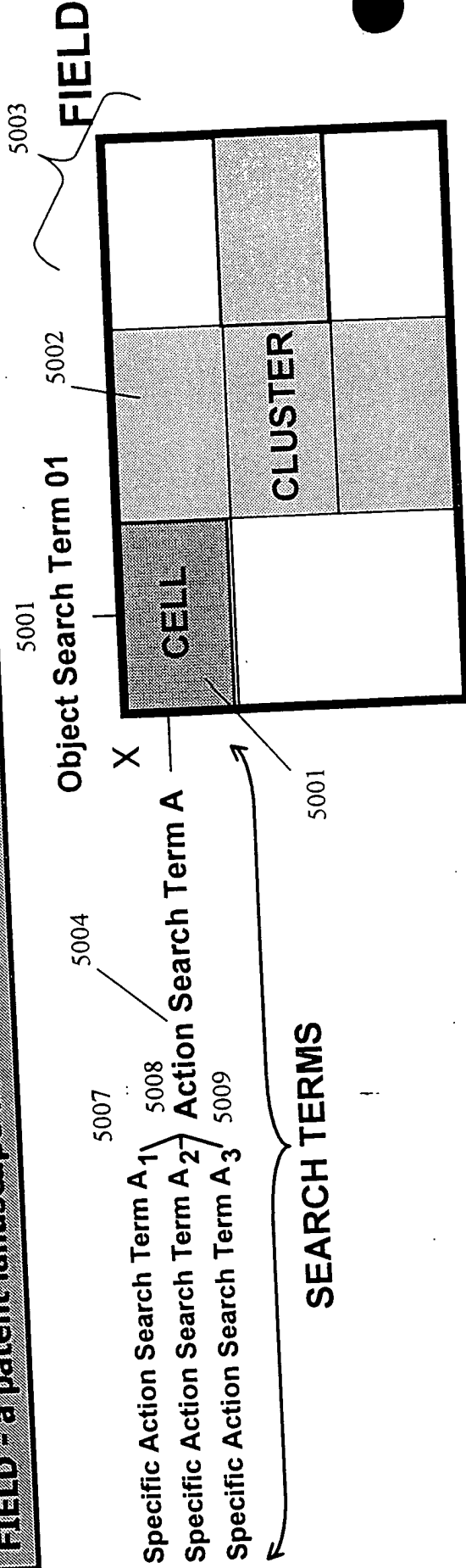


Fig. 5

# The Power to be Both Focused and Inclusive

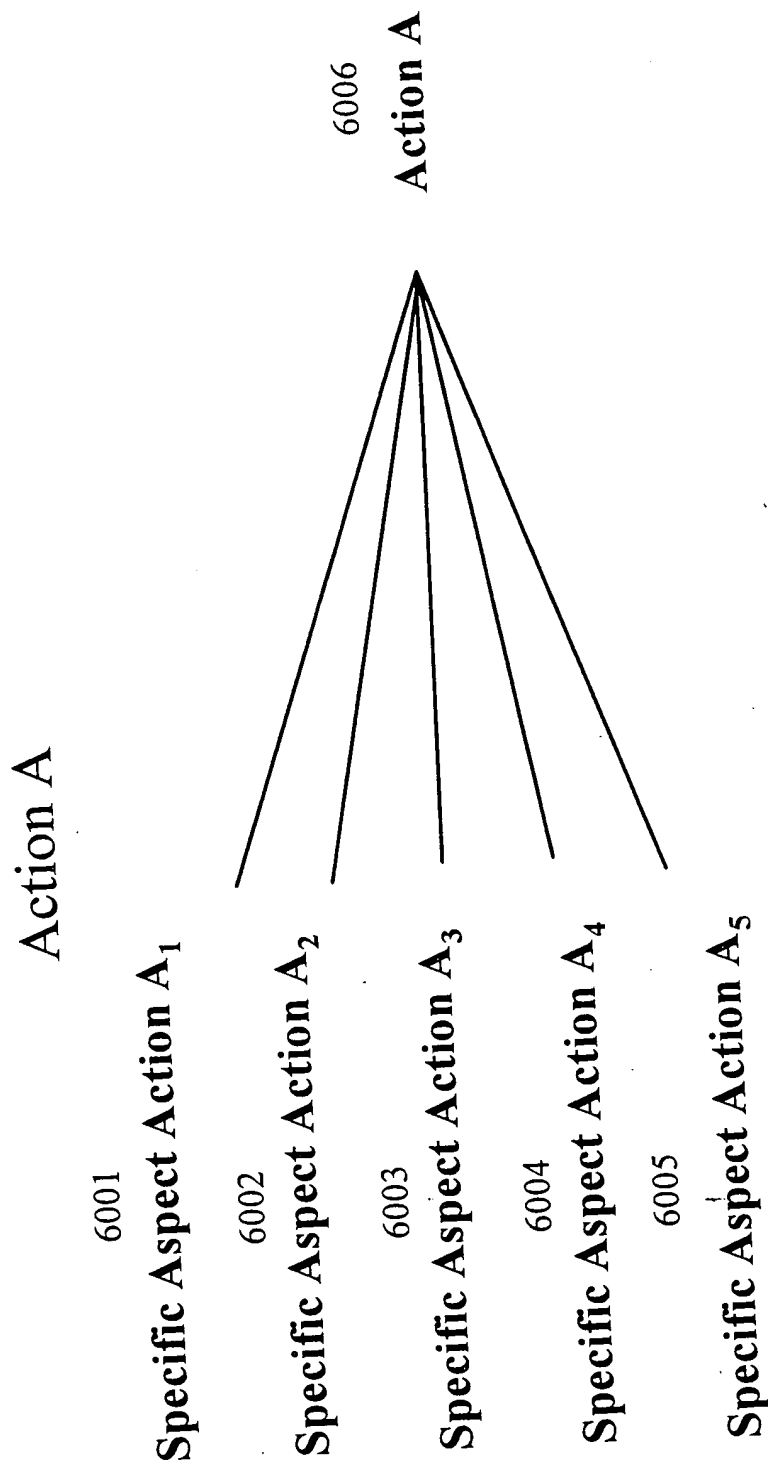


Fig. 6

\* Patents identified in any of these specific terms are rolled into one Action Data set.

# Patent Crosstab Report

7001	7002	7003	7004	7005	7007	7008
Assigner	Document ID	Title	Issued	Document Type	Hits	Weighted Action
Object Weights						
	</					

Fig. 7

[illegible]

1008

8022 8023 8024 8025 8026

Rank	Assignee	Hits	Recent Patents/Hits	Recent Patents	Weighted Hits	Weighted Action	C 01	R C 01	C 02	R C 02	C 03	R C 03	C 04	R C 04	C 05	R C 05	C 06	R C 06
8002	Patents						62		87		20		34		263			
8003	Issued Patents						49		65		17		23		206			
8004	Applied Patents						13		22		3		11		57			
8005	Recent Patents						16		33		10		11		55			
8006	Issued Recent Patents						14		22		7		7		44			
8007	Applied Recent Patents						2		11		3		4		11			
8008	Dominance						0.48		0.26		0.20		0.44		0.48			
8009	Recent Dominance						0.44		0.18		0.20		0.18		0.27			
8010	Issued Innovation Factor 4						0.33		0.62		0.69		1.29		0.10			
8011	Applied Innovation Factor 4						0.64		0.87		0.33		0.50		-0.02			
8012	Predictive Innovation Factor 4						0.31		0.25		-0.36		-0.79		-0.12			
1	Eastman Kodak	43	42	4			3		3		1				30		3	6
2	United States Of America	34	31	3					2	1					11		2	21
3	Texas Instruments	20	20	3					2				3		13		3	2
4	Xerox	18	18	4			17	3			1	1						
5	Minnesota Mining & Manufacturing	17	17	2			2		1	1					14		1	
6	Intl Business Machines	16	16	2					1				12	2				
7	Hughes Electronics	16	13	3					1									
8	Raytheon	15	11	12					5	2	2	2			6		2	2
9	Hughes Aircraft	14	13	1											3		11	1
10	Westinghouse Electric	12	12												2		10	
11	Thermoscan	12	12	5													12	5
12	Konica	12	12	5			9	4							3		1	
13	Polaroid	12	12	1					2	1					8		2	
14	Barr & Stroud	10	10												1		1	9
15	Matsushita Industrial Electric	10	10	3									1		9		3	

8020

Fig. 8A



[illegible]

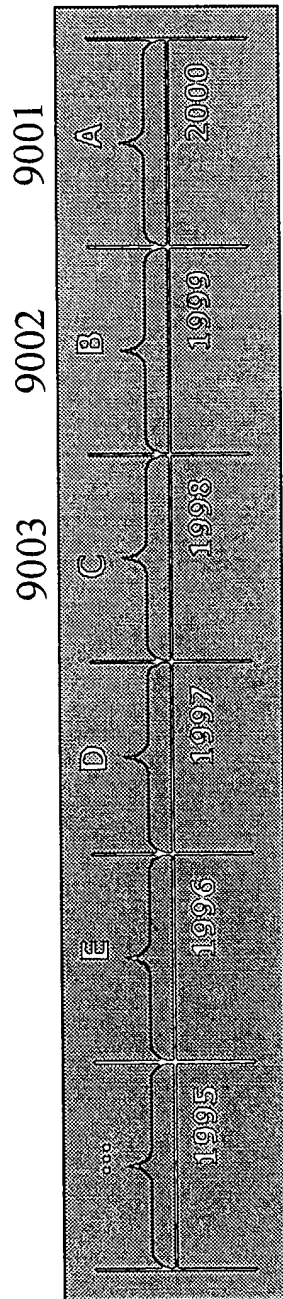
# Assignee Indices

## Assignee Rollup

[illegible]

# Cell Indices - Definitions

## Innovation Factor 1 (Applied or Issued)

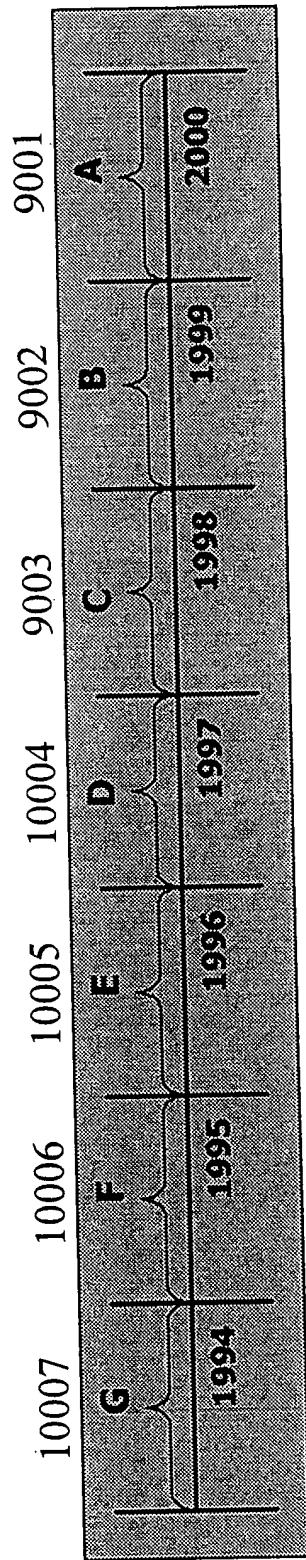


$$\text{Innovation Factor} = \frac{\text{9000} \quad \text{9001} \quad \text{A}}{\text{(B+C)/2} \quad \text{9002} \quad \text{9003}}$$

Fig. 9

# Cell Indices - Definitions

## Innovation Factor 4 (Applied or Issued)



Innovation Factor 4 =

$$\left[ \begin{array}{l} \left[ \frac{(A-B)}{B} \times 6 \right] + \left[ \frac{(B-C)}{C} \times 5 \right] + \left[ \frac{(C-D)}{D} \times 4 \right] + \left[ \frac{(D-E)}{E} \times 3 \right] + \left[ \frac{(E-F)}{F} \times 2 \right] + \left[ \frac{(F-G)}{G} \times 1 \right] \end{array} \right]$$

21 — 10017

Fig. 10

# Cell Selection Matrix

Cell Selection Index is calculated for each cell based on the implied suitability for joint ventures or internal development:

	01	02	03	04	05	06
	photo-receptor or	digital image	digital scan	remote network or	thermal image	optic align
11001 {	A License 4	4	1.25	1.25	6	0
	B License				0	14
	C License 20	15	5	10.5	1.75	3.5
11002 {	A Develop 6	16	1.25	1.25	14	0
	B Develop				0	6
	C Develop 5	15	7.5	7	0.75	1.5

Fig. 11

## Cell Selection Index

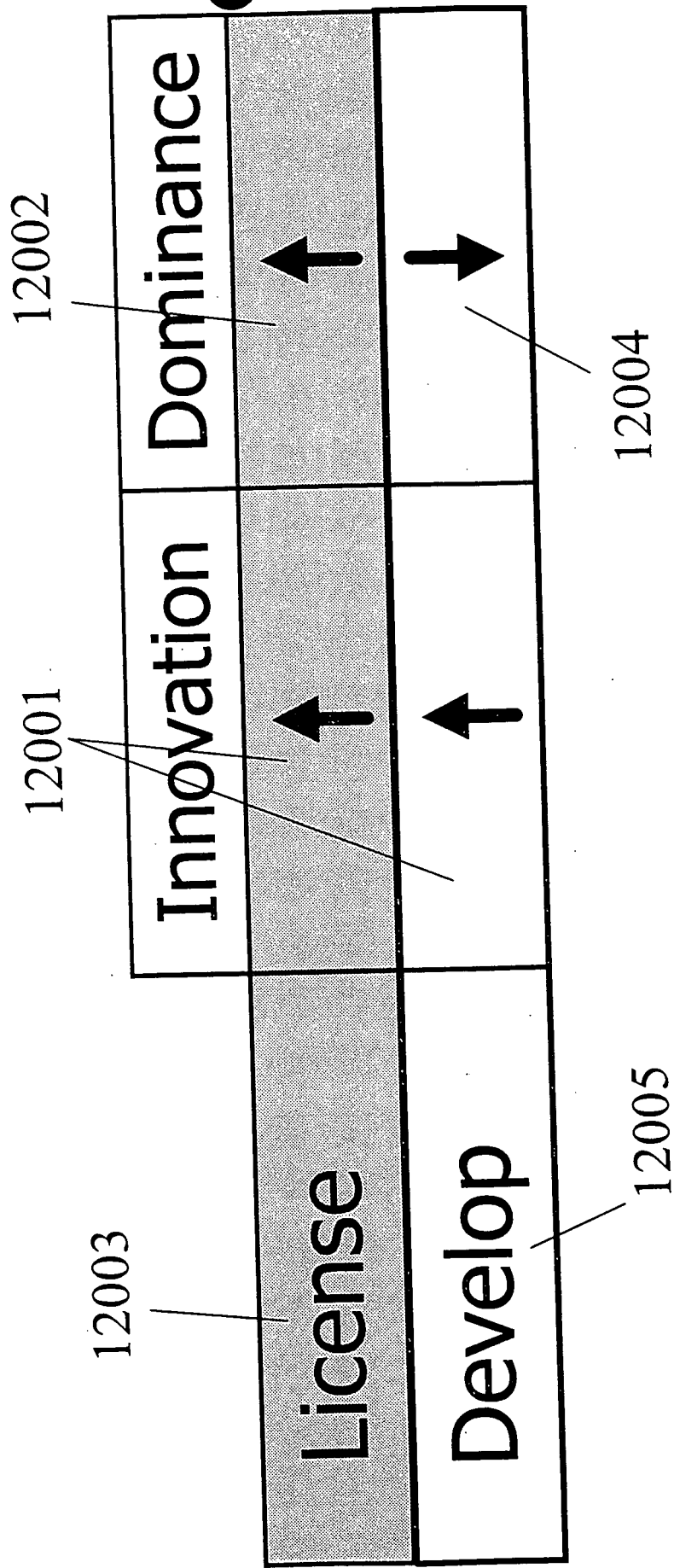


Fig. 12

SECRET

# Cell Selection Matrix

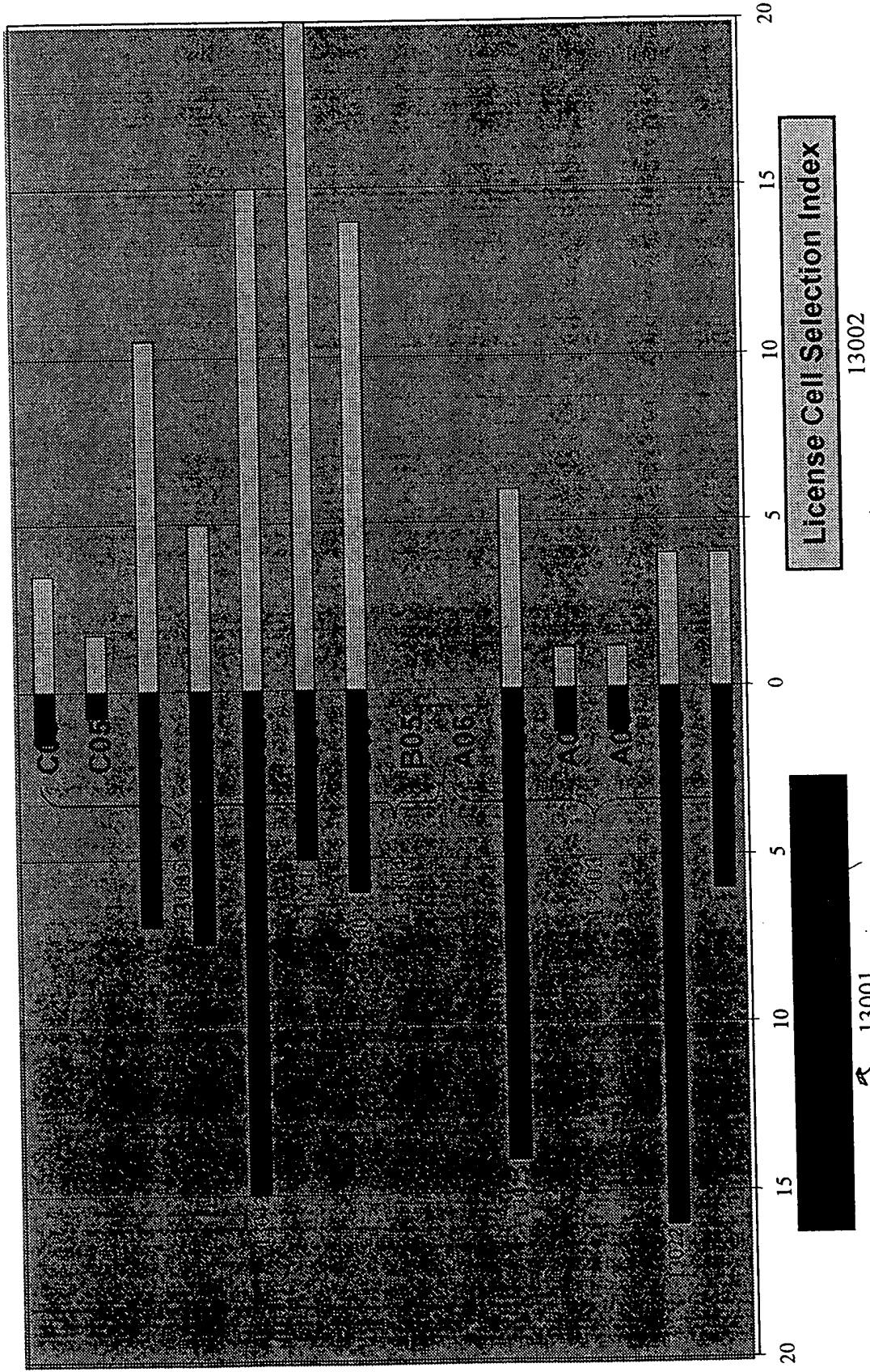


Fig. 13A

# Cell Selection Score - Bubble Chart

Dominance

High

Low

High

Low

Innovation

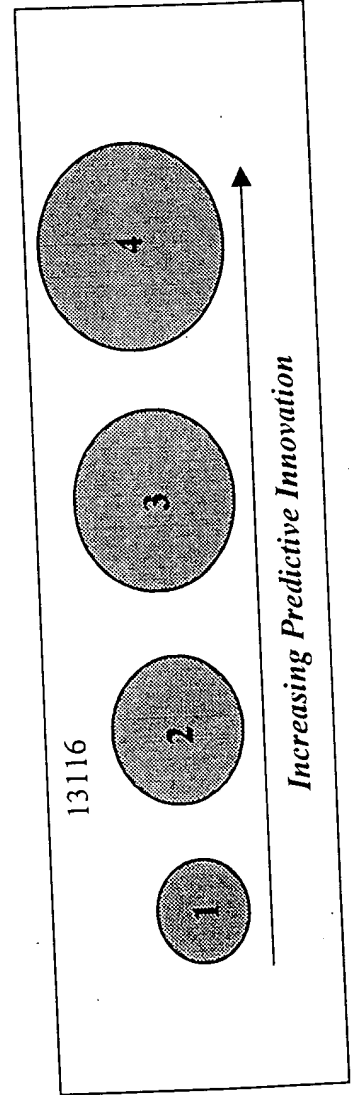
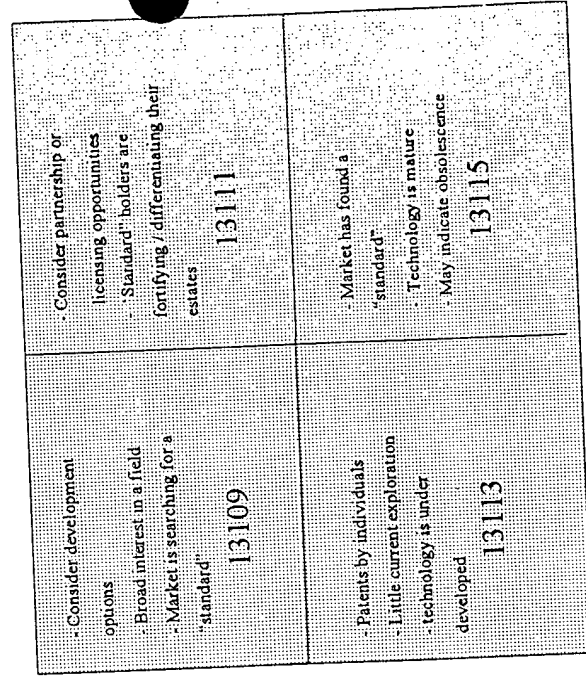
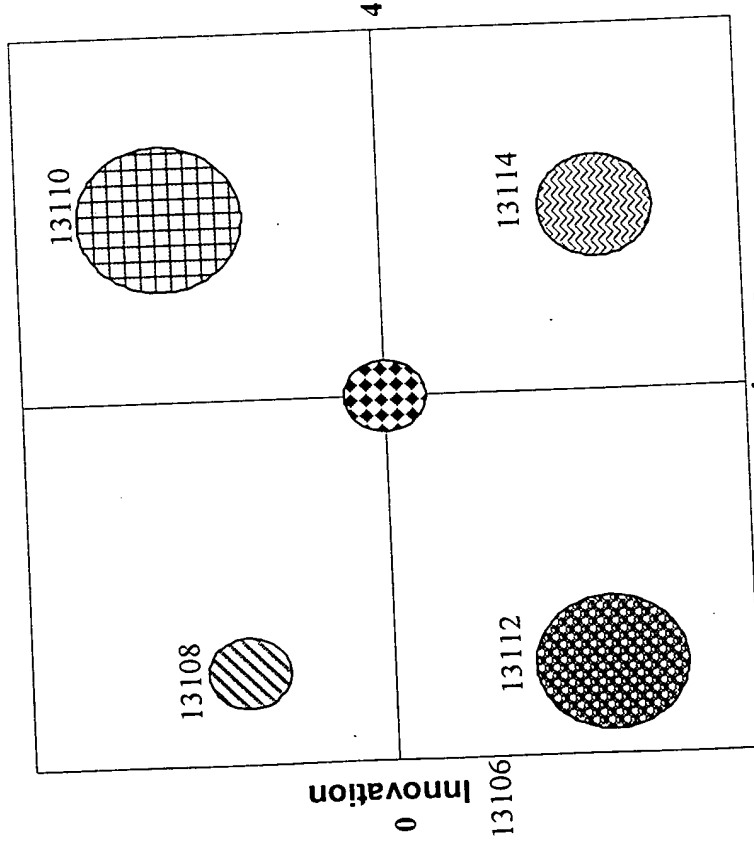


Fig. 13A

# Assignee Composite Score

14001		14003	14004	14005	14006	14007	14008
Rank	Assignee	Photo-receptor or	digital image	digital scan	remote network or	thermal image	optic align
1	A	61.4	46.1	5.1	0.0	59.0	25.0
2	B	0.0	55.4	0.0	0.0	26.4	80.6
3	C	0.0	30.0	0.0	31.5	28.0	7.0
4	D	400.0	0.0	10.0	0.0	0.0	0.0
5	E	40.0	30.0	0.0	0.0	26.3	0.0
6	F	0.0	15.0	0.0	147.0	0.0	10.5
7	G	0.0	18.5	0.0	0.0	26.8	26.8
8	H	0.0	147.3	28.6	0.0	30.1	20.0
9	I	0.0	0.0	0.0	0.0	5.7	45.0
10	J	0.0	0.0	0.0	0.0	3.5	35.0
11	K	0.0	0.0	0.0	0.0	0.0	59.5
12	L	260.0	0.0	0.0	0.0	7.0	0.0
13	M	0.0	45.0	0.0	0.0	14.0	7.0
14	N	0.0	0.0	0.0	0.0	1.8	31.5
15	O	0.0	0.0	0.0	10.5	21.0	0.0

14010

Fig. 14



# Assignee Composite Score

Normalized

Rank	14001					14003	14004	14005	14006	14007	14008
	Assignee	C01	C02	C03	C04	C05	C06	C07	C08	C09	C10
1	A	15.4	25.6	8.5	0.0	100.0	31.0	0.0	0.0	100.0	100.0
2	B	0.0	30.8	0.0	0.0	0.0	100.0	0.0	0.0	44.7	100.0
3	C	0.0	16.7	0.0	21.4	0.0	8.7	0.0	0.0	47.5	8.7
4	D	100.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	E	10.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	44.5	0.0
6	F	0.0	8.3	0.0	100.0	0.0	13.0	0.0	0.0	0.0	13.0
7	G	0.0	10.3	0.0	0.0	0.0	33.2	0.0	0.0	45.4	33.2
8	H	0.0	81.8	47.7	0.0	0.0	24.9	0.0	0.0	51.0	24.9
9	I	0.0	0.0	0.0	0.0	0.0	55.8	0.0	0.0	9.6	55.8
10	J	0.0	0.0	0.0	0.0	0.0	43.4	0.0	0.0	5.9	43.4
11	K	0.0	0.0	0.0	0.0	0.0	73.8	0.0	0.0	0.0	73.8
12	L	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0
13	M	0.0	25.0	0.0	0.0	0.0	8.7	0.0	0.0	23.7	8.7
14	N	0.0	0.0	0.0	0.0	0.0	39.1	0.0	0.0	3.0	39.1
15	O	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	35.6	0.0

15010

Fig. 15A

United States Patent Office  
Assignee Composite Score

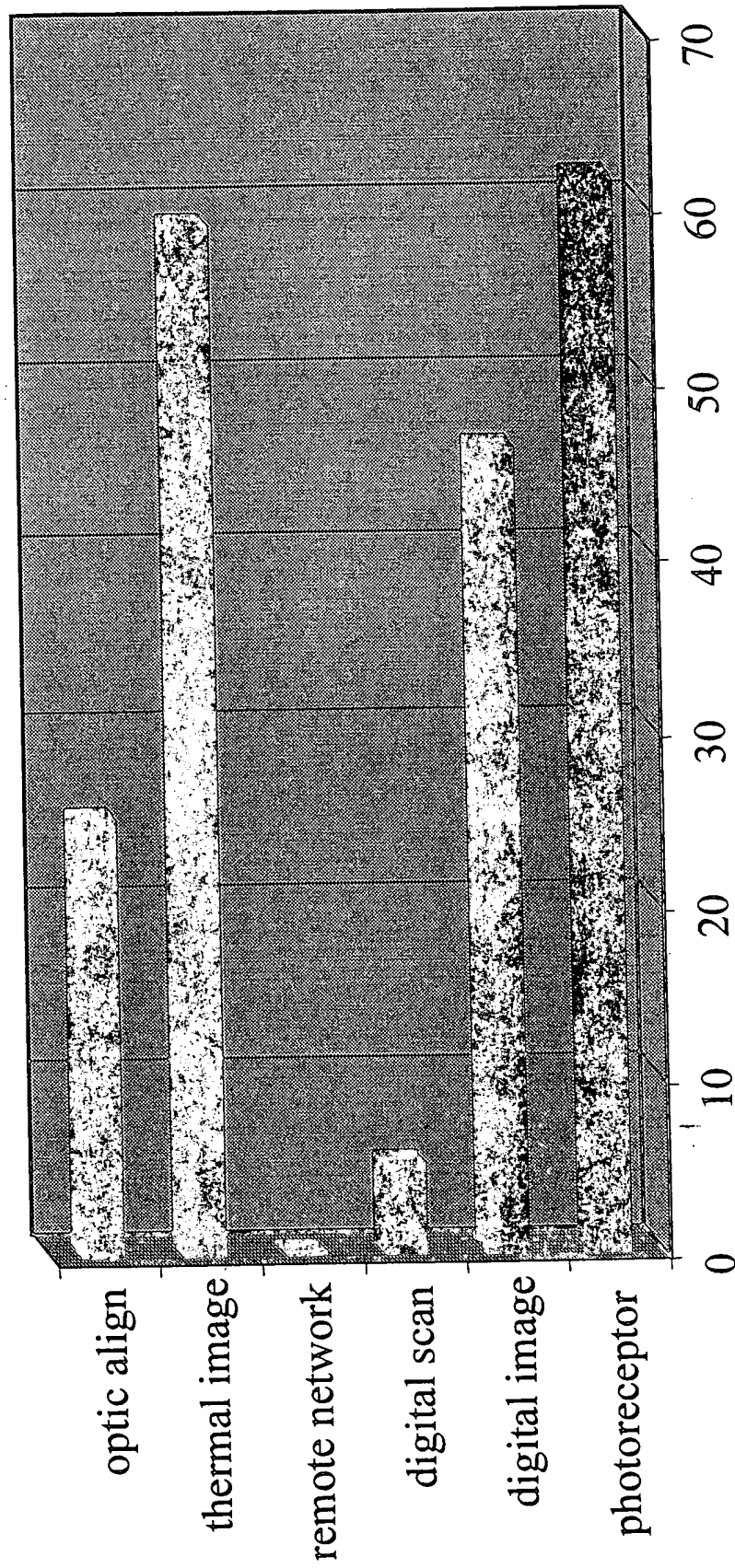
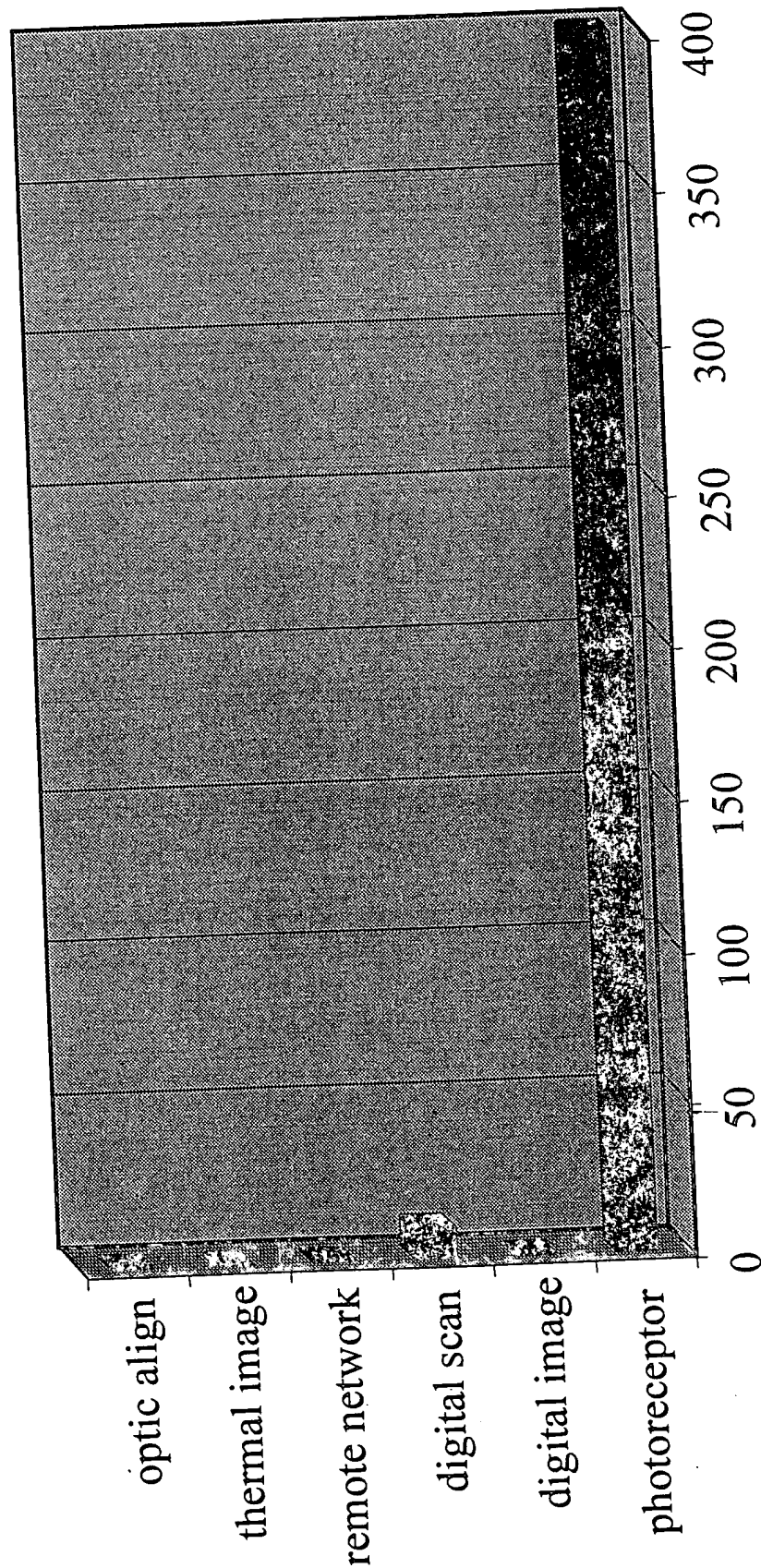


Fig. 15B

# Assignee Composite Score



□ D

Fig. 15C

# Assignee Composite Score

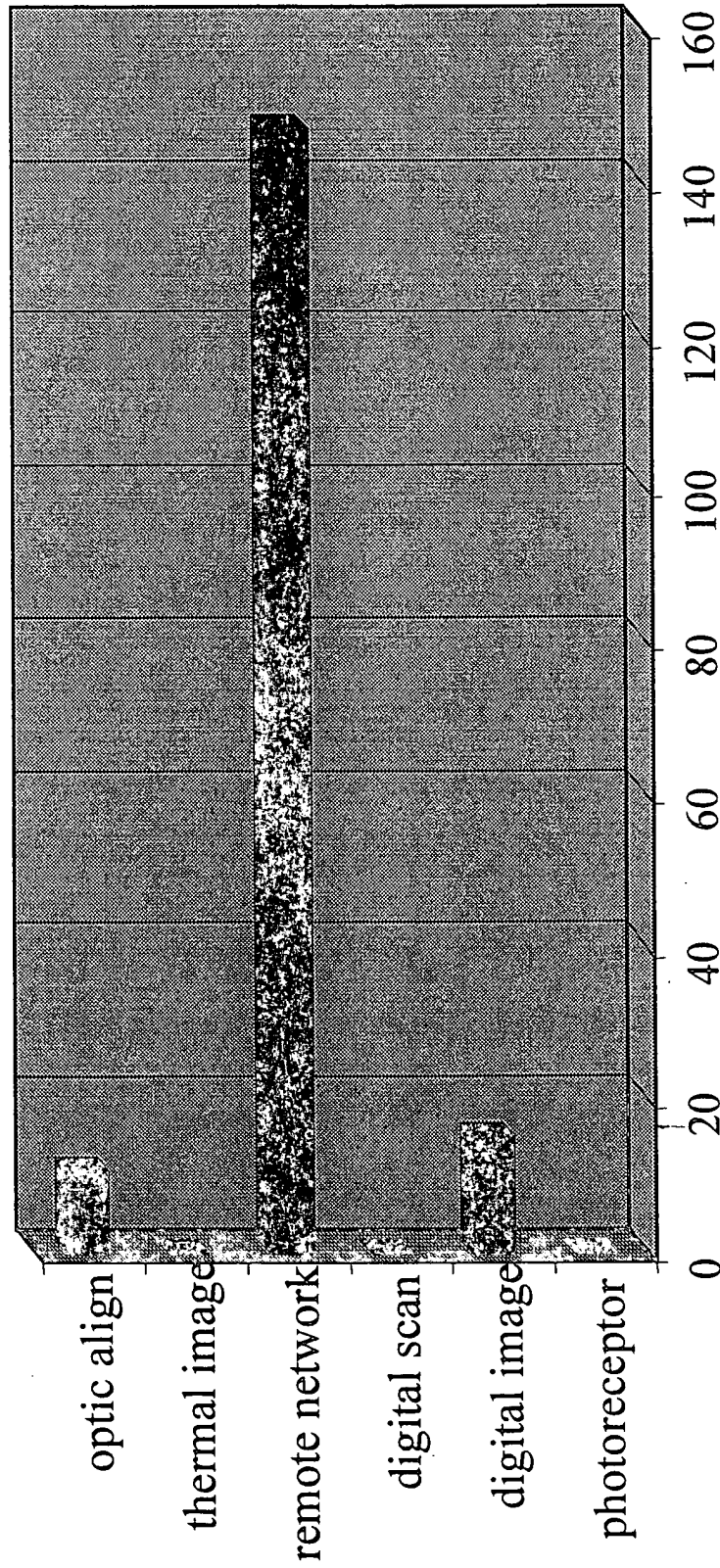


Fig. 15D

# Assignee Composite Score

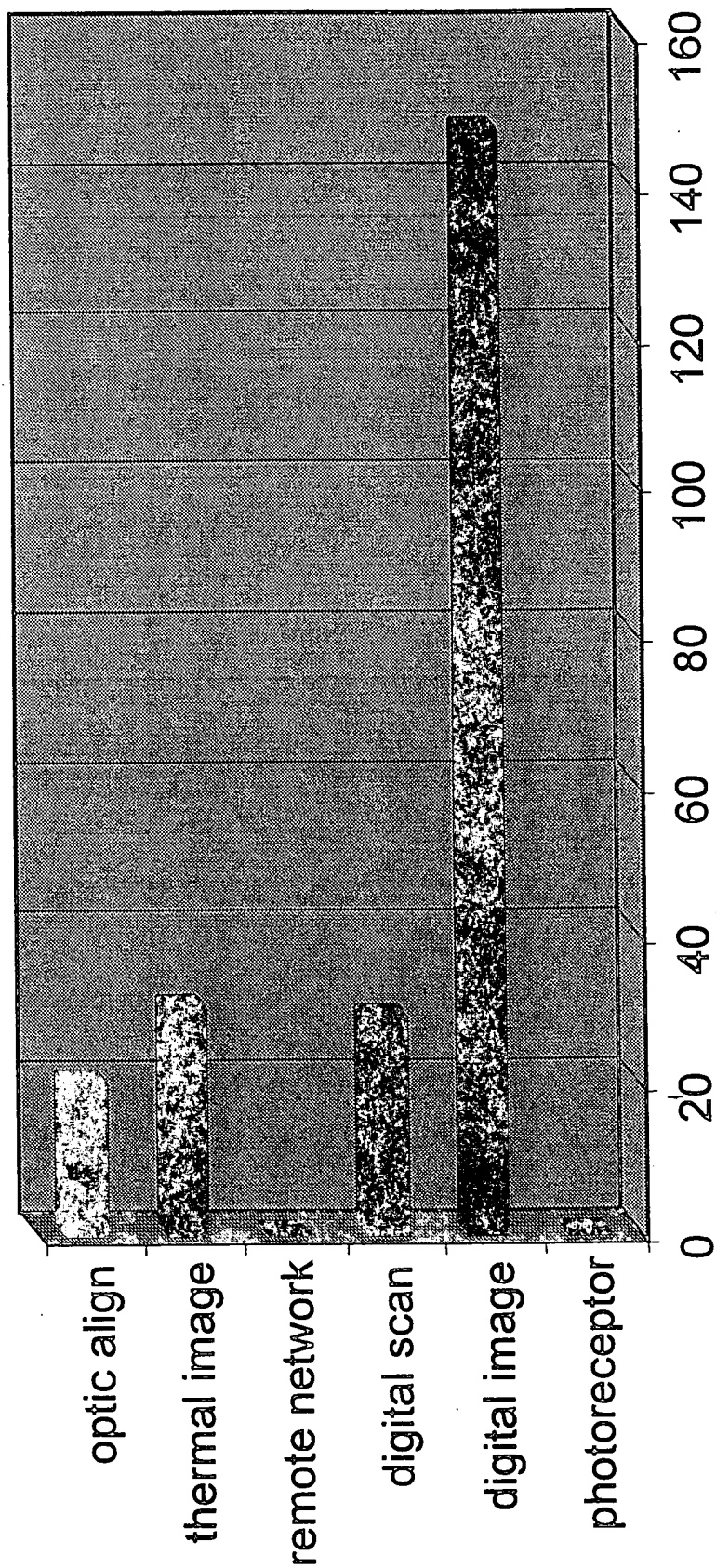


Fig. 15E

# Graphical Representation of Assignee Composite Score

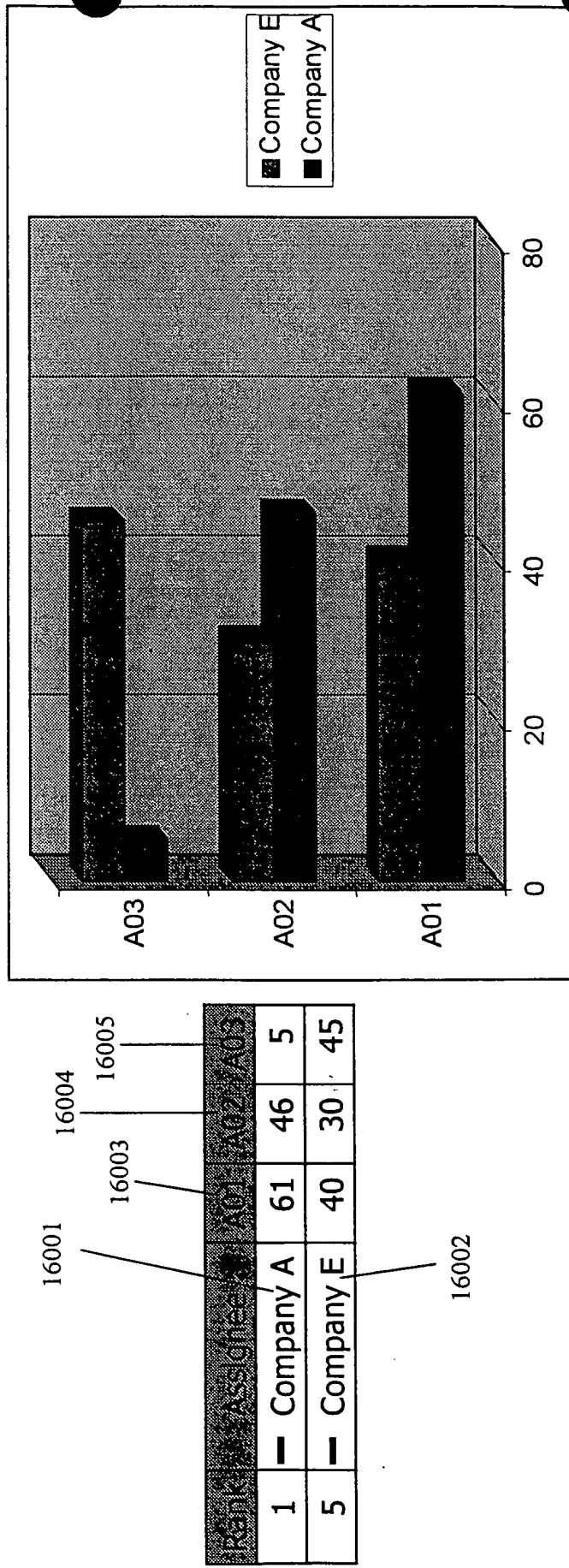


Fig. 16

# Assignee Composite Score

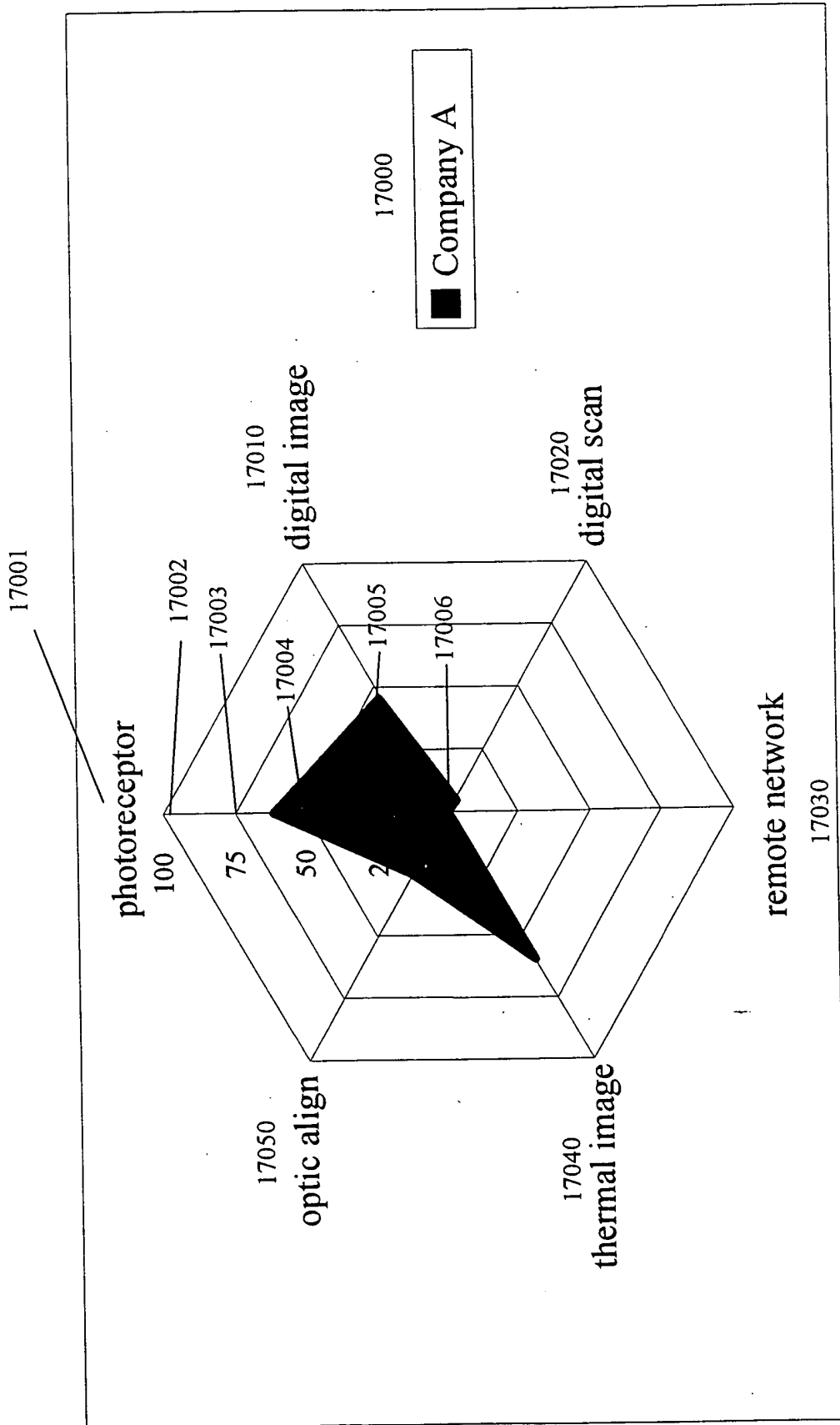
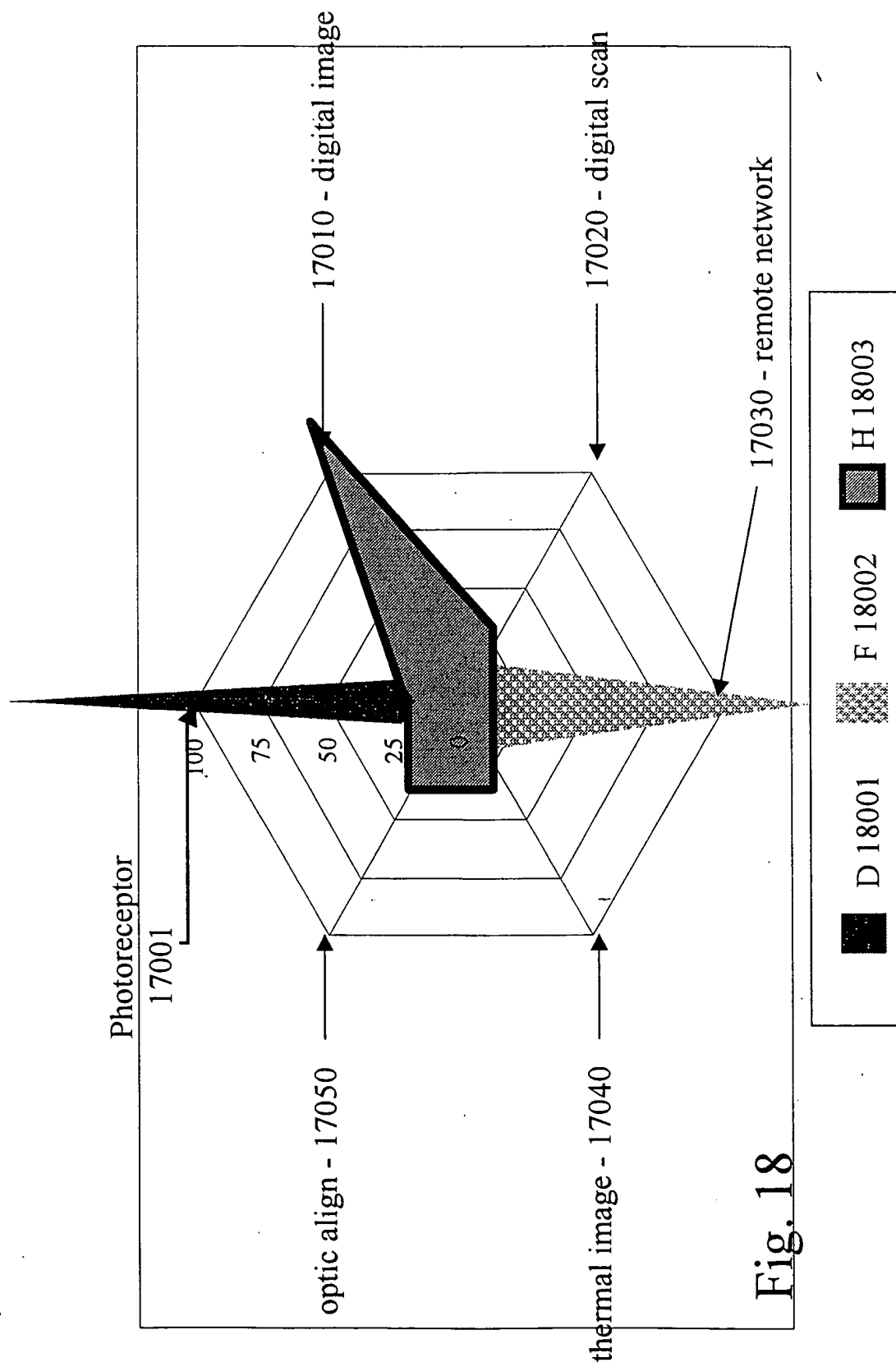


Fig. 17



# Assignee Composite Score





# Assignee Composite Score

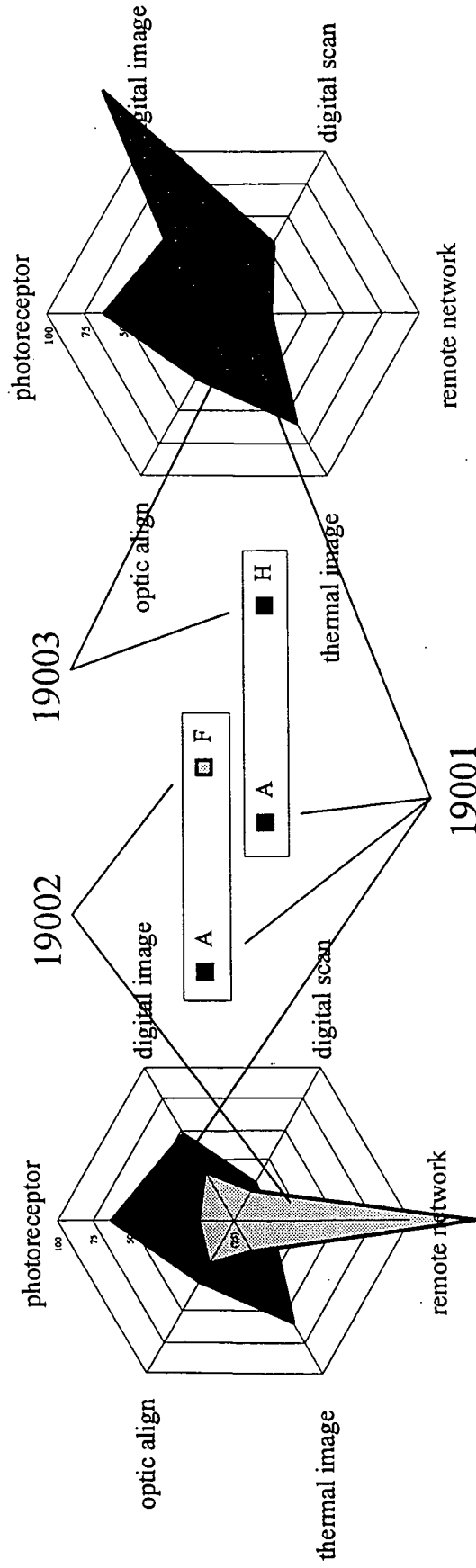


Fig. 19

20100

# Target Partner 1

## Assignee Specific Cell Selection Indices

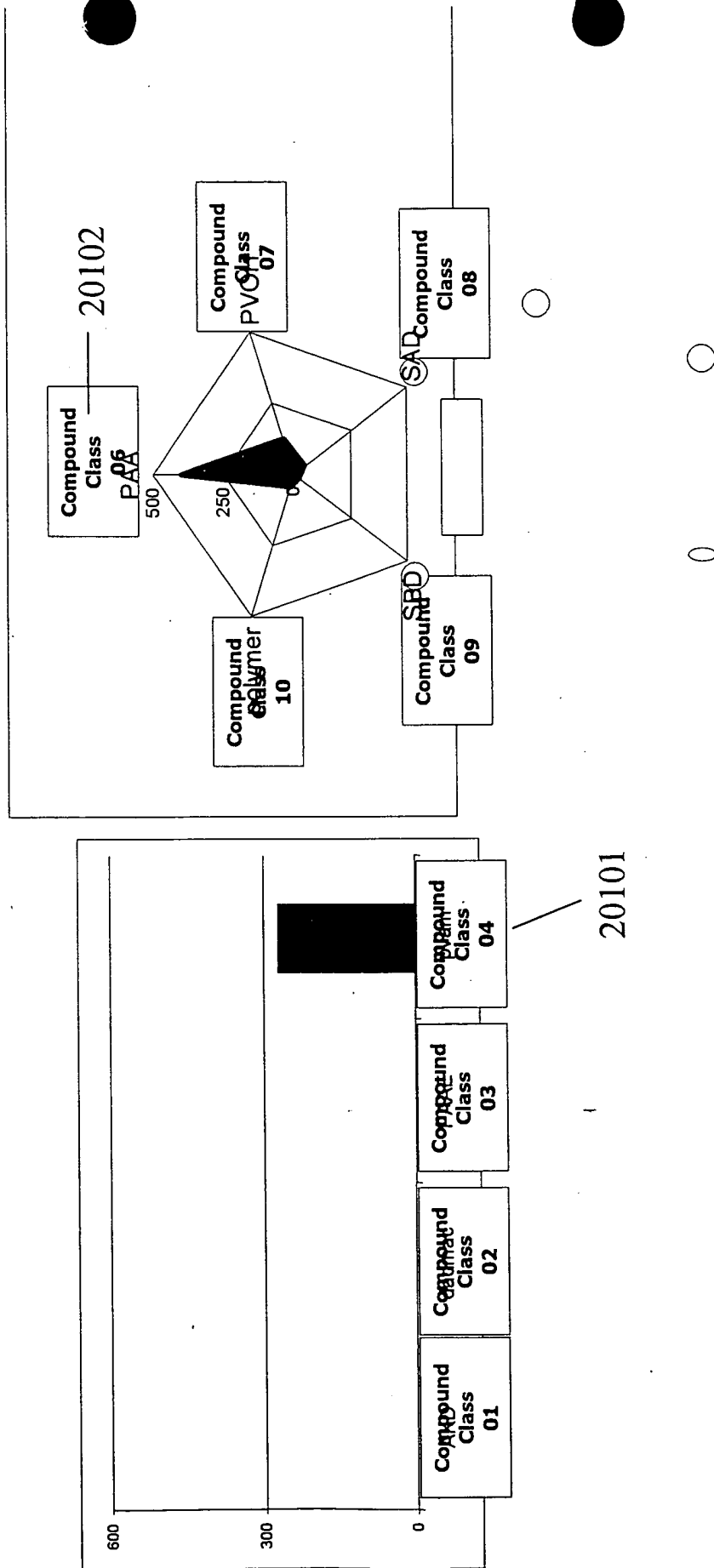


Fig. 20A

20200

# Alternative Partner 2 Assignee Specific Cell Selection Indices

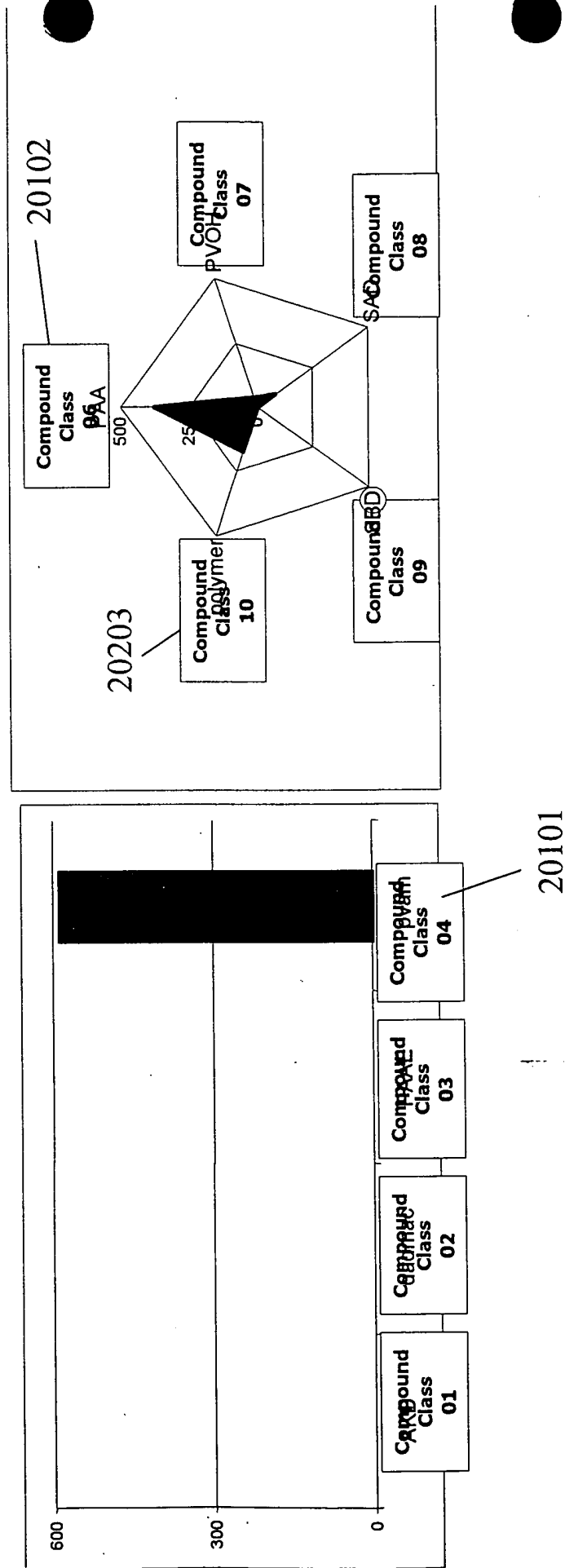


Fig. 20B

20300

## Assignee Specific Cell Selection Indices

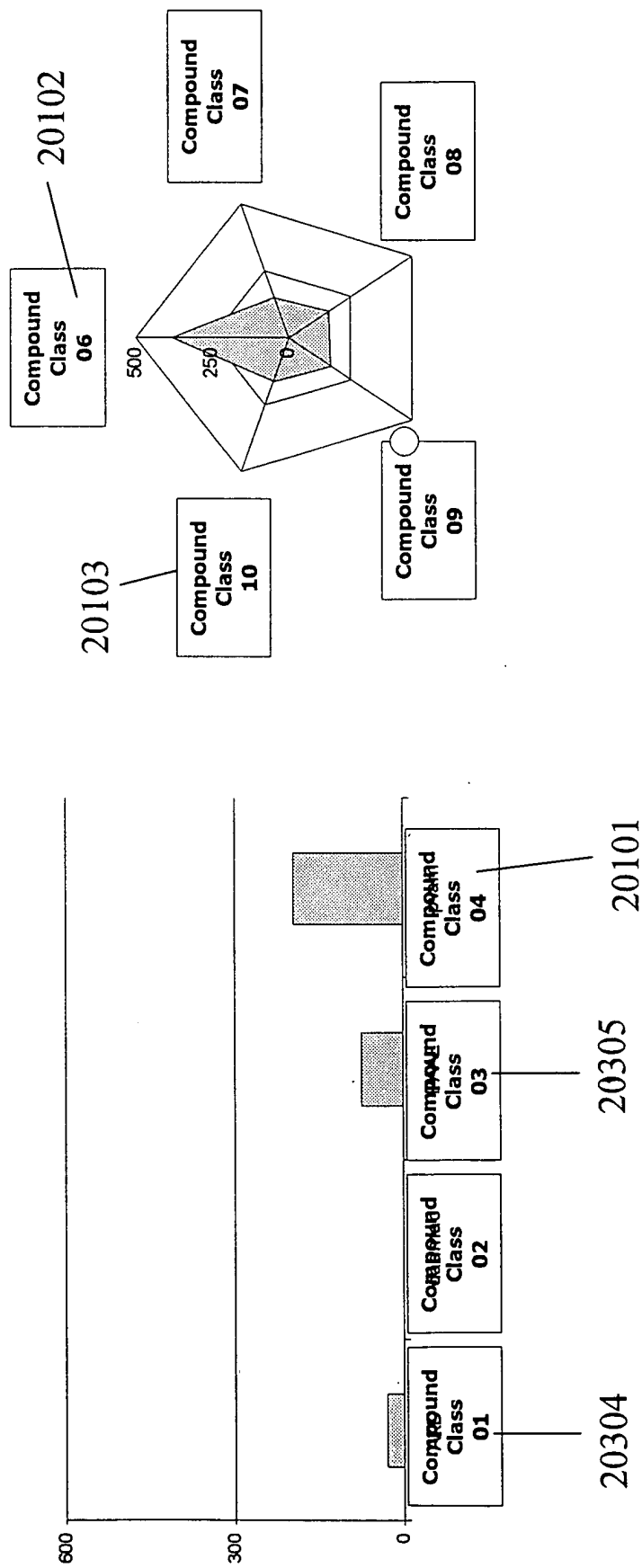


Fig. 20C

# Assignee Field Index vs. Patent Count

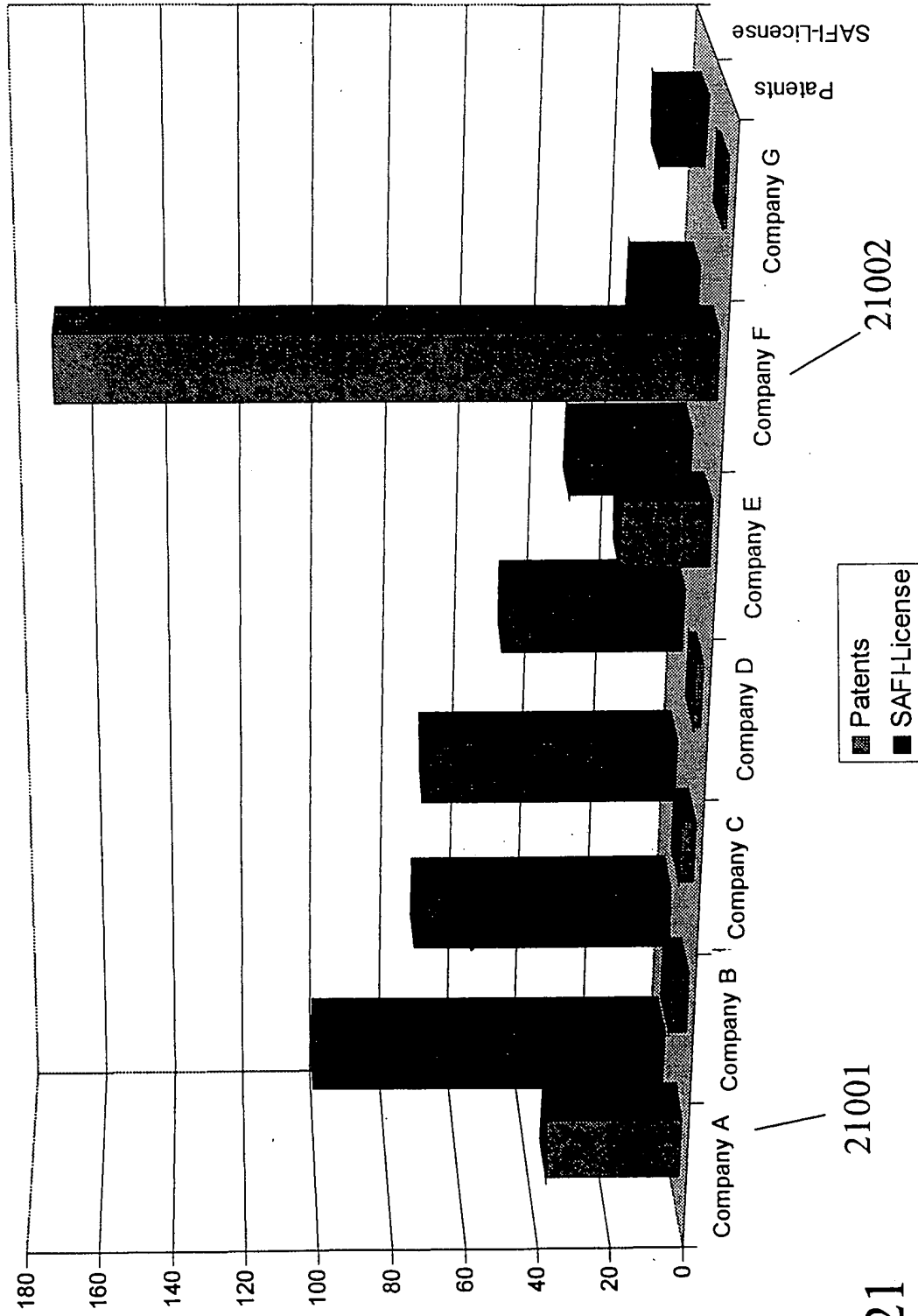


Fig. 21

# Standardized Assignee Cell Index - Application B

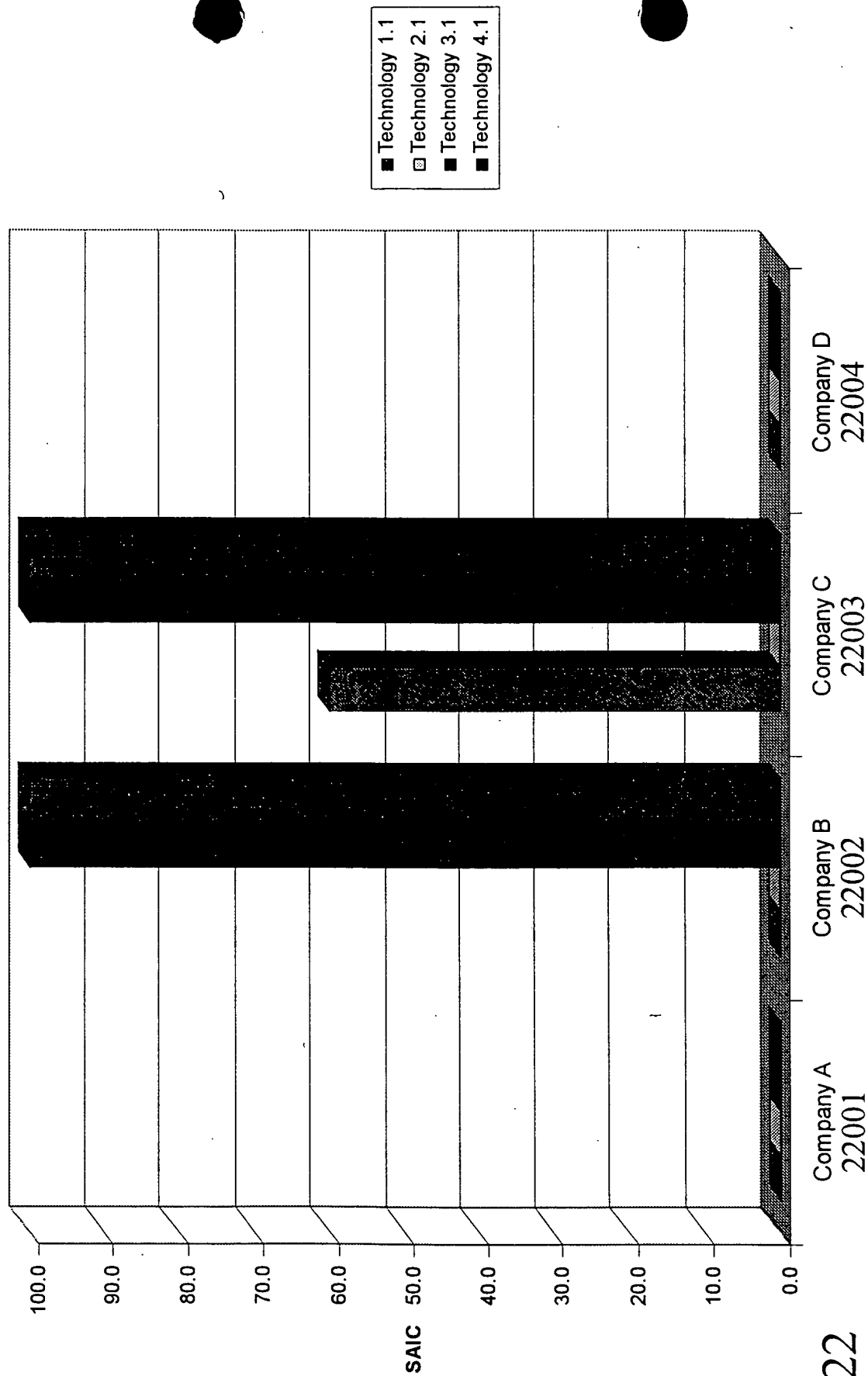


Fig. 22

# Standardized Assignee Cell Index - Application C

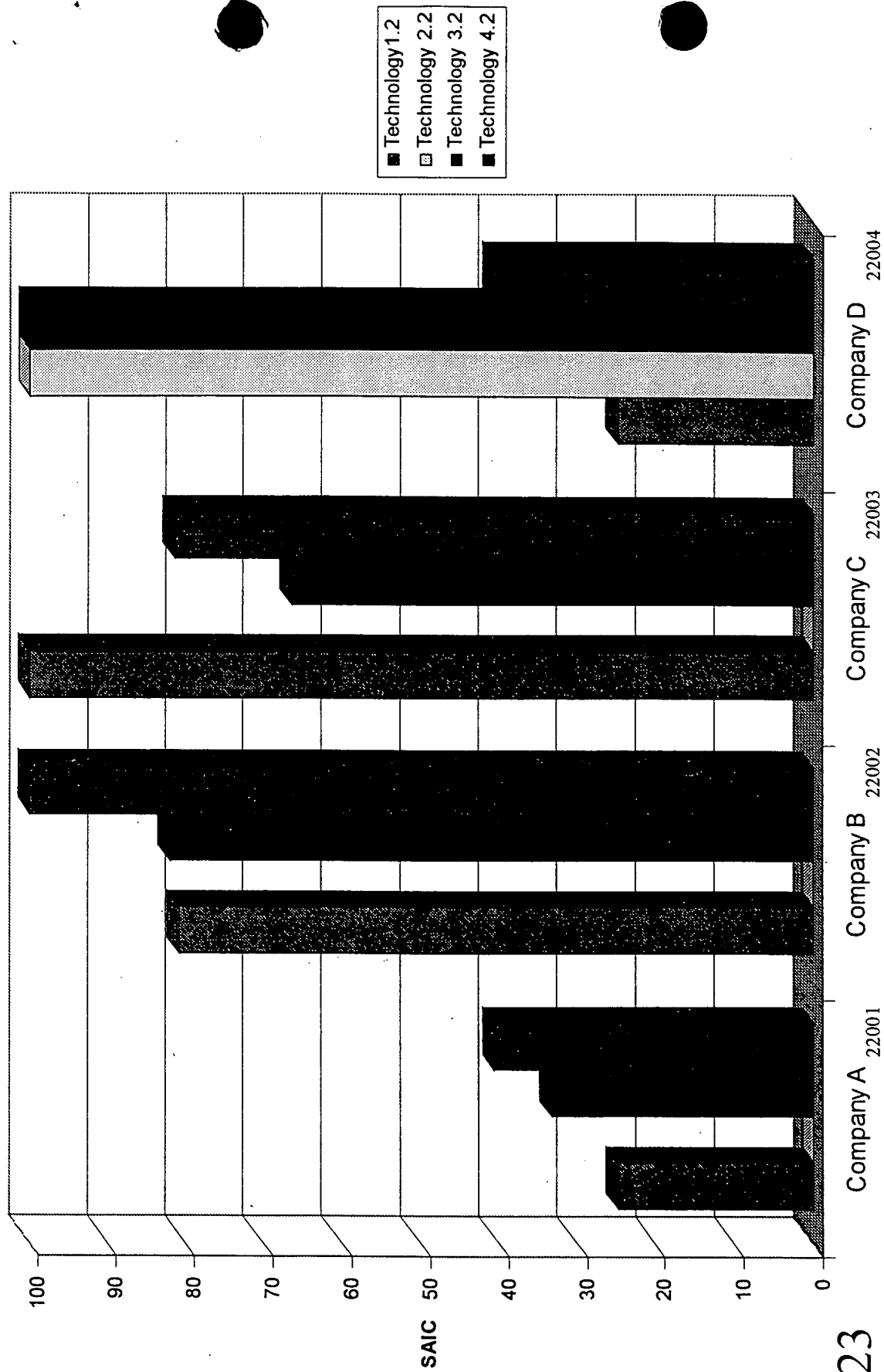


Fig. 23

# Standardized Assignee Cell Index: Company A vs.

## Company B

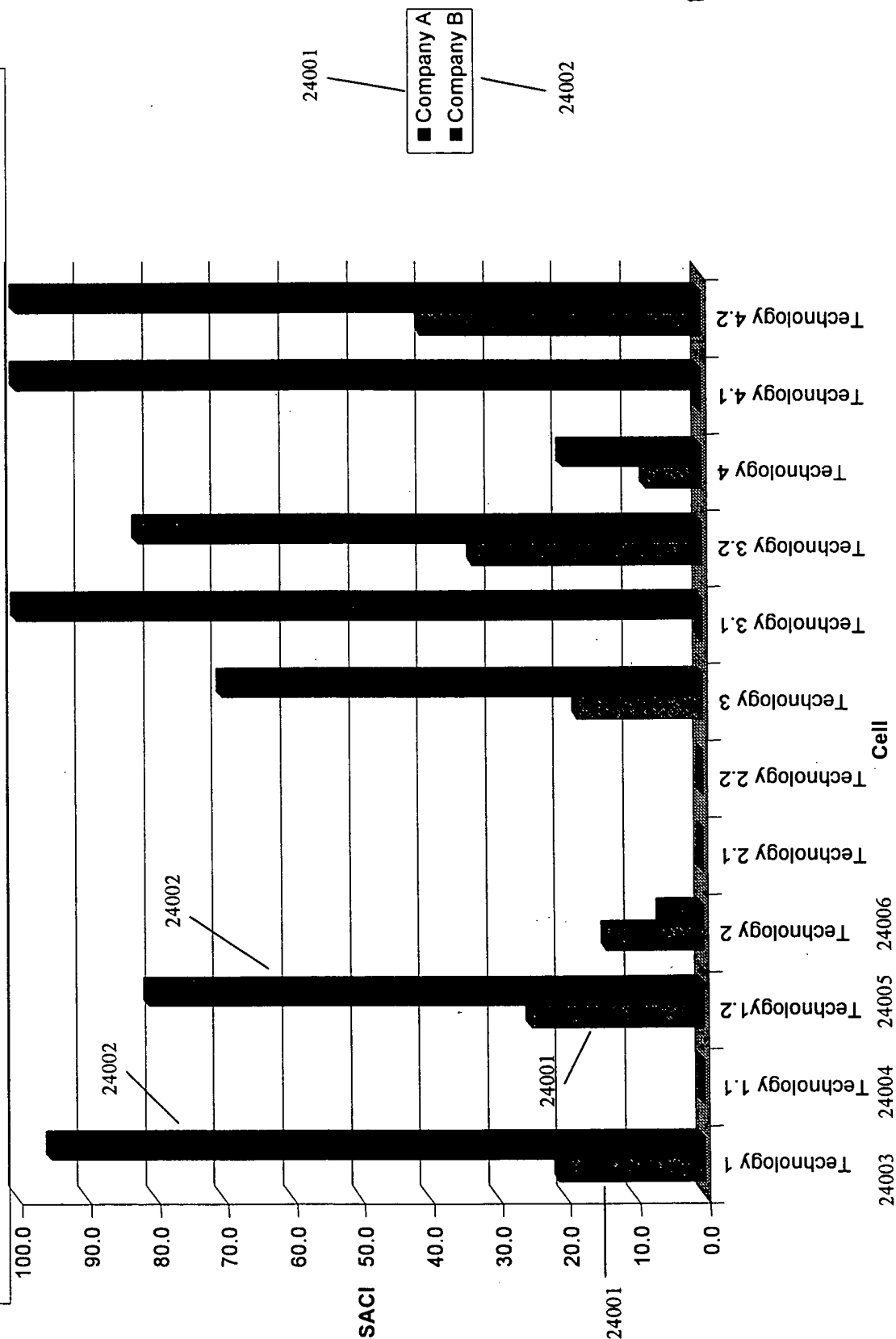


Fig. 24



# Naturally Defined Clusters

Clusters	Count of Cells	Occurrences
C05,A05	2	18
C06,A06	2	18
A01,C01	2	16
A02,C02	2	14
A05,C05	2	14
A06,C06	2	14
B06,C06	2	10
C02,C05	2	10
C01,A01	2	8
C03,C05,C02	3	6
C02,C03	2	6
C05,C02	2	6
C06,B06	2	6
C04,A04,A06,C06	4	4
C06,A06,C05,A05	4	4

	01	02	03	04	05	06
A near infrared						
B far infrared						
C infrared						

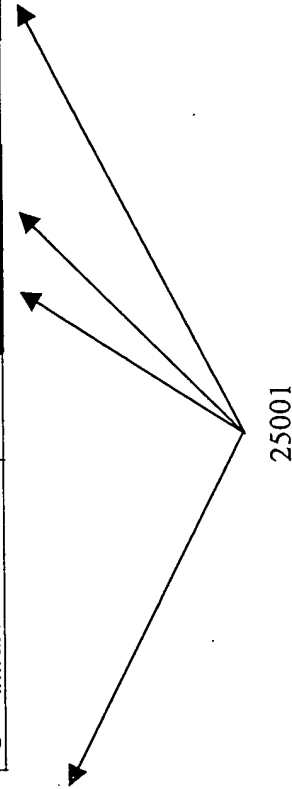


Fig. 25A

# Top Assignees Across a Selected Cluster

C02, C03, C05

C02, C03, C05
Eastman Kodak
Minnesota Mining & Manufacturing
Texas Instruments
United States Of America
Hughes Electronics
Polaroid
Raytheon
Matsushita Industrial Electric
Us Philips
He Holdings Dbh Hughes Electronics
Honeywell
Agfa-Gevaert
Massachusetts Institute Of Technology
Cairns & Brother
Nec
Raytheon Ti Systems

Fig. 25B

# Top Inventors

## Eastman Kodak

Inventor	Hits	Patents	Weighted Hits	Weighted Action
Chapman, Derek D.	10	10	11	4
DeBoer, Charles D.	8	8	9	5
Evans, Steven	6	6	6	3
Burberry, Mitchell S.	3	3	4	3
Schildkraut, Jay S.	2	2	3	4
Tuft, Lee W.	2	2	3	3
Momot, David	2	2	2	3
Bugner, Douglas E.	2	1	2	4
Byers, Gary W.	2	1	2	6
Kolb, Jr., Frederick J.	2	1	2	2
Vogel, Richard M.	2	1	2	1
Harvey, Donald M.	1	1	3	4
De Groot, Gerald H.	1	1	2	5
McIntyre, Dale F.	1	1	2	1
Simpson, William H.	1	1	2	3
Bloom, Richard M.	1	1	1	2

Fig. 26

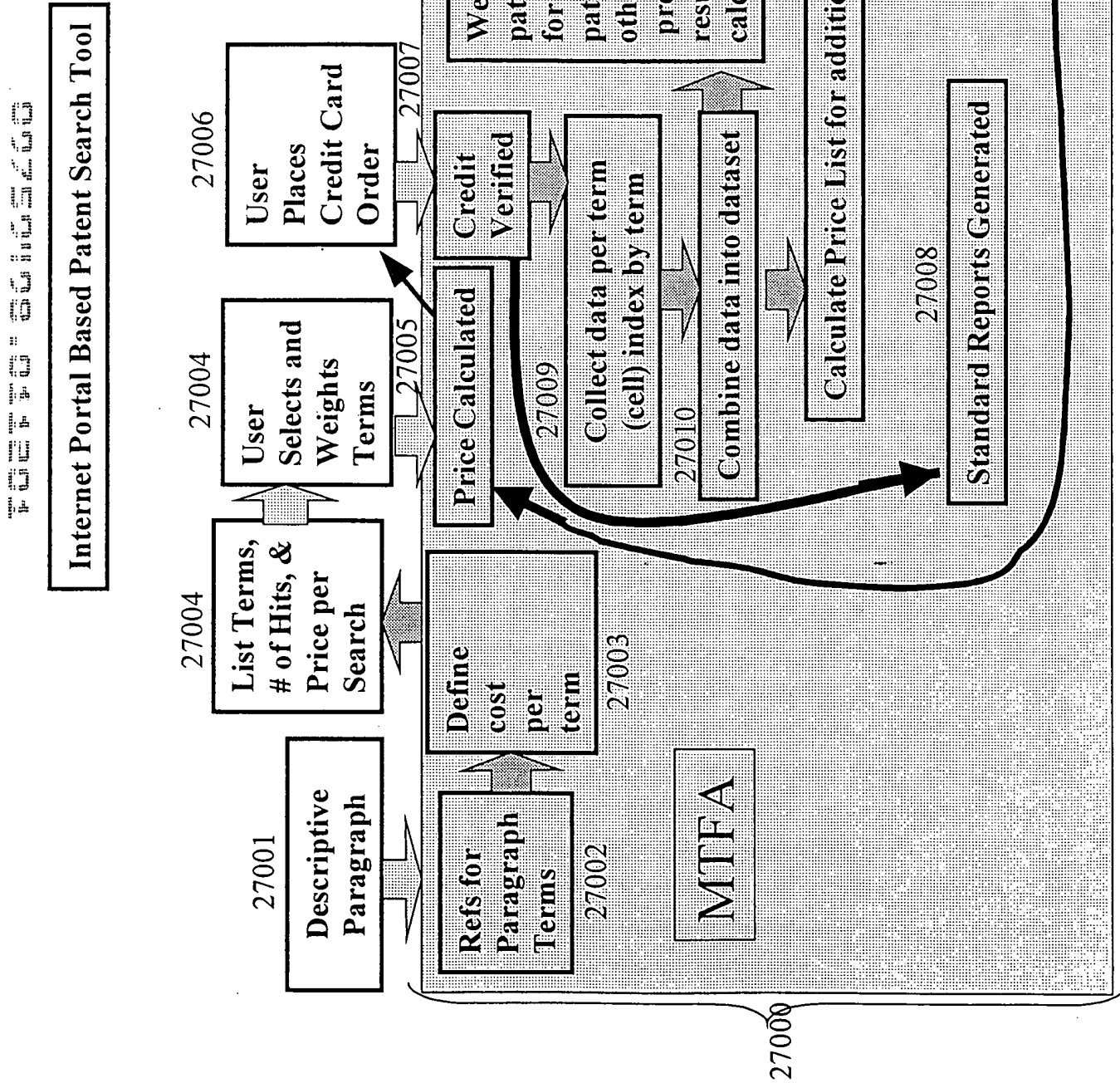


Fig. 27

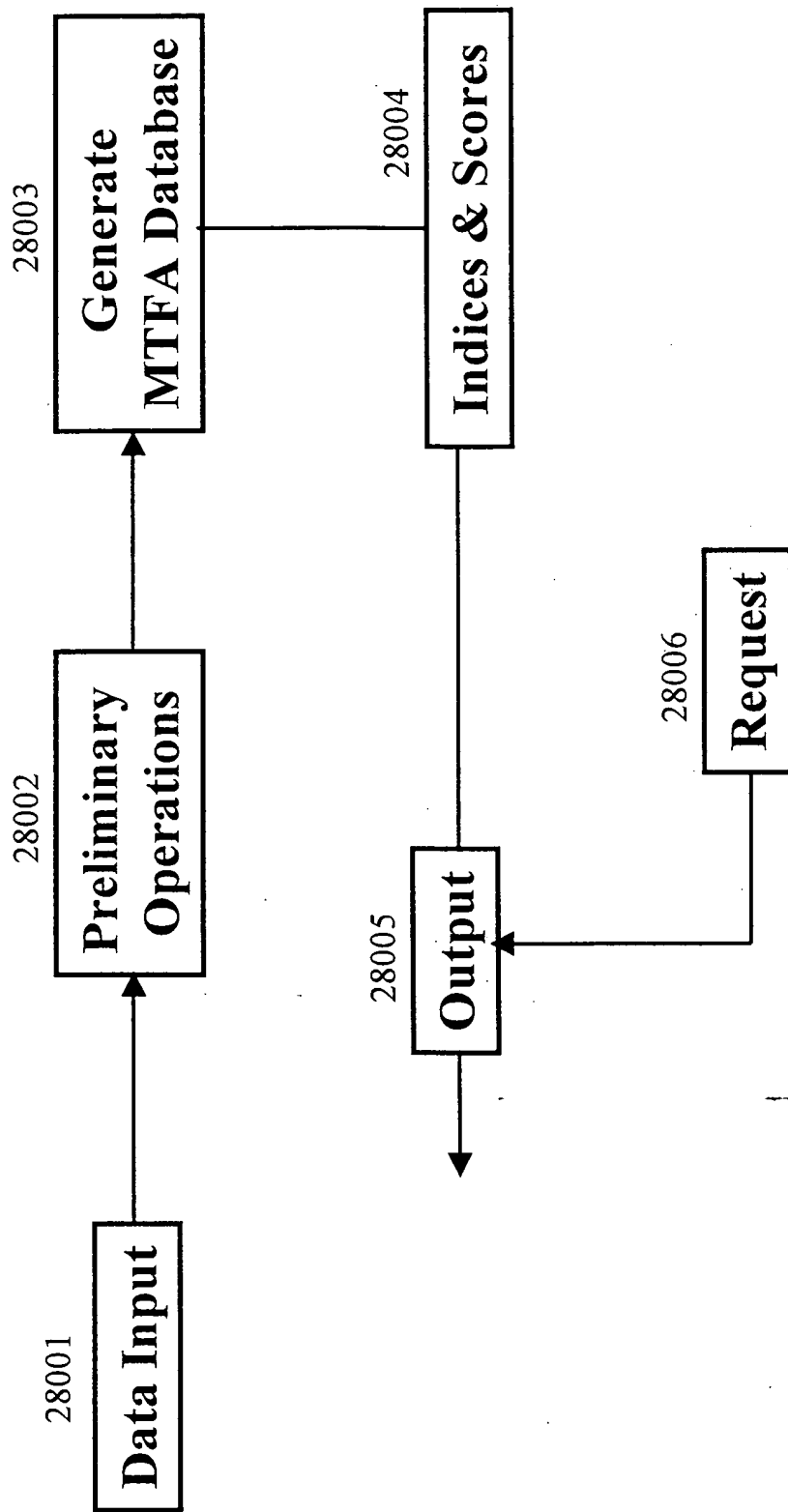


Fig. 28

# MTFA Altitude

All Information 29001

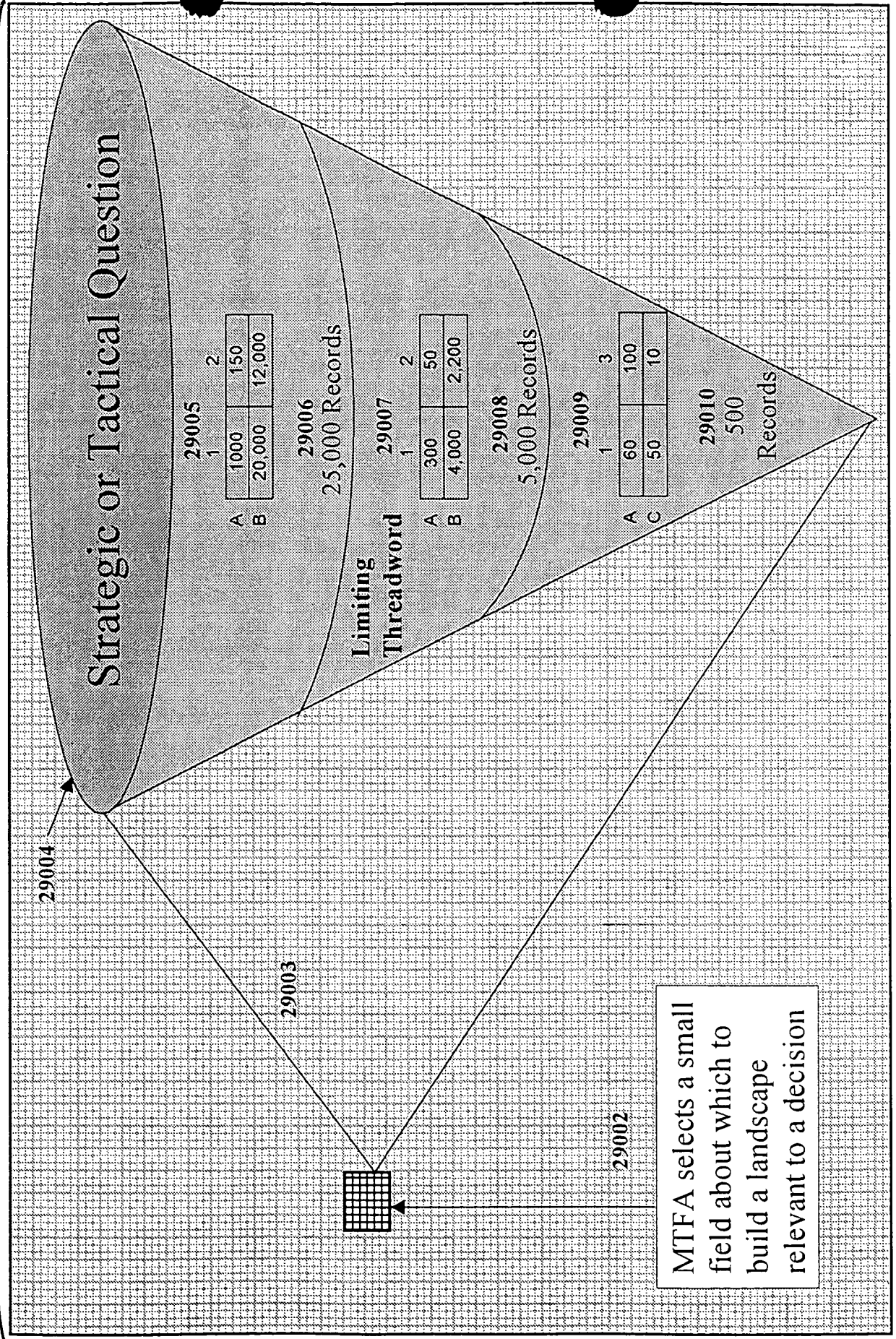


Figure 29